



State Aided College Teacher  
Department of Chemistry  
Charuchandra College  
22 Lake Road, Kolkata-700029, India  
Ph. 91 9831135100  
Email id: [swatidutta2002@gmail.com](mailto:swatidutta2002@gmail.com)

## Dr. Swati Dutta (nee Mitra)

---

### ➤ Academic Records

- **Ph. D. :** Synthetic Inorganic Chemistry  
Jadavpur University  
Kolkata, India  
2002
- **M. Sc. :** Chemistry (Analytical Chemistry)  
Jadavpur University  
1997

### ➤ Previous Experience

- **Guest lecturer**  
Vidyasagar University  
M. Sc. First year: Analytical Chemistry  
M. Sc. Final year: Environmental Science and Ecology
- **Guest lecturer**  
Midnapur College  
M.Sc. Final year: Environmental Science and Ecology

### ➤ Fellowship

- Graduate Aptitude Test in Engineering (GATE)
- NET, Council of Scientific and Industrial Research (CSIR), JRF/SRF
- Research Associate Fellowship (CSIR DIRECT RA)
- National Scholarship for Bachelor of Science

- Merit Certificate and Prize Money for Higher Secondary Examination under National Scholarship Scheme
- Merit Certificate and Prize Money for Madhyamik Pariksha under National Scholarship Scheme

### ➤ Research Interest

Synthesis and characterization of complexes of platinum group metals with special reference to structural and spectral properties

### ➤ Research Experiences

Sl. No.	Name & Address of the Institute	Designation	From	To	Research Area
1	Jadavpur University Kolkata-700032, India	Junior Research Fellow JRF	21-08-1997	20-08-1999	Synthetic Inorganic Chemistry
2	Jadavpur University Kolkata-700032, India	Senior Research Fellow SRF	21-08-1999	20-08-2002	Synthetic Inorganic Chemistry
3	Jadavpur University Kolkata-700032, India	Research Associate CSIR-DIRECT RA	01-09-2003	31-08-2008	Activation of molecular oxygen by metal complexes

### ➤ List of Publications

1. Napthalene-1, 8-diolato complexes of ruthenium & osmium. Synthesis and electron-transfer properties  
**Swati Dutta**, Nimai Chand Pramanik and Samaresh Bhattacharya\*  
J. Indian Chemical Society, 2000, Volume 77, PP 1-4
2. Ligand Control on Molecular Oxygen Activation by Rhodium Quinone Complexes  
Swati Dutta, Shie-Ming Peng and Samaresh Bhattacharya\*  
Inorg. Chem., 2000, Vol. 39, PP. 2231-2234
3. Synthesis, structure and redox properties of some 2-(aryloxy)phenolate complexes of rhodium (III)  
Swati Dutta, Shie-Ming Peng and Samaresh Bhattacharya\*  
J. Chem. Soc. Dalton Trans., 2000, PP. 4623-4627
4. Synthesis, structure and redox properties of some thiosemicarbazone complexes of rhodium  
Swati Dutta, Falguni Basuli, Shie-Ming Peng and Samaresh Bhattacharya\*

New J. Chem., 2002, Vol. 26, PP. 4623-4627

5. Unprecedented Chemical Transformation of Semicarbazones Mediated by Wilkinson's Catalyst  
Indrani Pal. Swati Dutta, Falguni Basuli, Savitha Goverdhan, Shie-Ming Peng, Gene-Hsiang Lee and Samaresh Bhattacharya\*  
Inorg. Chem., 2003, Vol. 42, PP. 4338-4345
6. Ruthenium Mediated C-H Activation of 2-(Arylazo)phenols. Characterization of an Intermediate and the Final Organoruthenium Complex  
Parna Gupta, Swati Dutta, Falguni Basuli, Shie-Ming peng, Gene-Hsiang Lee and Samaresh Bhattacharya\*  
Inorg. Chem., 2006, Vol. 45, PP 460-467
7. Rhodium Assisted C-H Activation of Benzaldehyde Thiosemicarbazones and Their Oxidation via Activation of Molecular Oxygen  
Rama Acharyya, Swati Dutta, Falguni Basuli, Shie-Ming peng, Gene-Hsiang Lee, Larry R. Falvello and Samaresh Bhattacharya\*  
Inorg. Chem. 2006, Vol. 45, PP. 1252-1259
8. Rhodium assisted C-H activation of N-(2-hydroxy)benzaldimines. Synthesis, structure and electrochemical properties of a group of organorhodium complexes  
Semanti Basu, Swati Dutta, Michael G. B. Drew and Samaresh Bhattacharya\*  
J. Organomet. Chem., 2006, Vol. 691, PP. 3581-3588
9. Interaction of 2-(arylazo)phenols with rhodium. Usual coordination versus C-H and C-C activation  
Suparna Baksi, Rama Acharyya, Swati Dutta, Alexander J. Blake, Michael G. B. Drew, and Samaresh Bhattacharya  
J. Organomet. Chem., 2007, Vol. 692, PP 1025-1032
10. Synthesis, structure, and electrochemical properties of a family of organoruthenium complexes  
Chhandasi GuhaRoy, Sakya Singha Sen, Swati Dutta, Golam Mostafa, Samaresh Bhattacharya  
Polyhedron, 2007, Vol. 26, PP 3876-3884
11. Variable coordination mode of the benzaldehyde thiosemicarbazones. Synthesis, structure and electrochemical properties of some ruthenium complexes  
Swati Dutta, Falguni Basuli, Alfonso, Castineiras, Shie-Ming Peng, Gene-Hsiang Lee, Samaresh Bhattacharya\*  
Eur. J. Inorg. Chem., 2008, PP 4538-4546.